

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	724	((integrated near2 circuit) IC near3 chip) same (volume gain) same amplifier	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:08
L2	198	((integrated near2 circuit) IC near3 chip) with (volume gain) with amplifier	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:10
L3	38	((sound audio) near2 chip) same (volume gain) same amplifier	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:36
L4	2200	(counter) near3 "5" near2 (bit bits)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:40
L5	49	(counter near3 "5" near2 (bit bits)) and (memory near3 "5" near3 (bit bits))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:48
L6	0	((counter near3 "5" near2 (bit bits)) same ("500" near2 Hz)) and ((memory register) near3 "5" near3 (bit bits))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:49
L7	1	((counter near3 "5" near2 (bit bits)) same (frequency near2 MHz)) and ((memory register) near3 "5" near3 (bit bits))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:50
L8	4	((counter near3 "5" near2 (bit bits)) with (frequency near2 MHz))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 13:58
L9	602	(pulse (square near2 wave)) with frequency with ("500" near2 Hz)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:01

## EAST Search History

L10	20	((pulse (square near2 wave)) with frequency with ("500" near2 Hz)) same (volume gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:06
L11	31	((pulse (square near2 wave)) with frequency with ("500" near2 Hz)) same (audio sound)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:09
L12	3350	(register memory) near2 "5" near2 (bit bits)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:41
L13	6	"381"/\$.ccls. and (register memory) near2 "5" near2 (bit bits)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:12
L14	0	(pulse near2 width near2 register) near2 "5" near2 (bit bits)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:31
L15	0	((register memory) near2 "5" near2 (bit bits)) with determi\$4 with width with signal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:48
L16	0	((register memory) near2 "5" near2 (bit bits)) with (width near3 modulation near2 signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:51
L17	0	((register memory) near3 "5" near3 (bit bits)) with (control\$4 near4 pulse near2 width)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:52
L18	383	(register memory) near3 (control\$4 near4 pulse near2 width)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:55
L19	0	((register memory) near3 (control\$4 near4 pulse near2 width)) with ("5" near3 (bit bits))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 14:57

## EAST Search History

L20	3	((register memory) near3 (control\$4 near4 pulse near2 width)) same ("5" near3 (bit bits))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/15 15:00
S1	649	(381/107).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/07 17:50
S2	718	(381/104).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/07 17:54
S3	867	(379/375.01,418).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/07 17:51
S4	6	keithley.in. and volume same control\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/07 17:53
S5	4	agilent.AS. and volume same control\$3 same counter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/07 17:53
S6	68	381/102-109.ccls. and volume same control\$3 same counter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/07 17:57
S7	152	(340/392.3).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/07 17:57
S8	36	381/102-109.ccls. and (volume same control\$3) and counter and compar\$5 and gate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 13:03
S9	15	381/102-109.ccls. and (volume same control\$3) and counter and compar\$5 and ("AND" near2 gate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/07 17:59

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S10	5	381/102-109.ccls. and (volume same control\$3) and counter and (square near2 wave) and gate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:34
S11	867	(379/375.01,418).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 13:05
S12	2	S11 and (volume same control\$3) and counter and (square near2 wave) and gate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 13:11
S13	4	((("6944264") or ("6400821") or ("5010306") or ("4924511")).PN.	USPAT	OR	OFF	2007/03/08 13:12
S14	4	((("6944284") or ("6400821") or ("5010306") or ("4924511")).PN.	USPAT	OR	OFF	2007/03/08 15:37
S15	111	((modulat\$3 near3 square near2 wave) same count\$3) and (volume gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:21
S16	31	((modulat\$3 near3 square near2 wave) same count\$3) and (volume gain) and (audio sound)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:48
S17	1	381/102-109.ccls. and (modulat\$3 with (count\$3 near2 signal)) with (volume gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 13:22
S18	17	(modulat\$3 with (count\$3 near2 signal)) with (volume gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 14:48
S19	3	((("3796831") or ("4414877") or ("6016075")).PN.	USPAT	OR	OFF	2007/03/08 15:16
S20	176	(381/102).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:40

## EAST Search History

S21	0	S20 and counter same volume same (square near wave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:24
S22	28	((modulat\$3 near3 square near2 wave) same count\$3) same (volume gain)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:23
S23	2425	(330/10,251,207A).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:24
S24	0	S23 and counter same volume same (square near wave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:37
S25	24	"381"/\$.ccls. and (volume same control\$3) and counter and (square near2 wave) and gate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:35
S26	905	(330/284).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:37
S27	0	S26 and counter same volume same (square near wave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:40
S28	374	(381/109).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:40
S29	0	S28 and counter same volume same (square near wave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/08 15:40
S30	2501	((integrated near3 circuit)IC) with ((volume gain) near4 control\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 14:07

## EAST Search History

S31	0	((integrated near3 circuit)IC) with ((volume gain) near4 control\$4)) same (counter) same (modulat\$4 near2 square near2 wave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 14:11
S32	48	((integrated near3 circuit)IC) with ((volume gain) near4 control\$4)) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:41
S33	1077	(375/345).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 14:40
S34	2	S33 and (square near2 wave near2 modulat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 14:41
S35	305	(327/179).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 14:41
S36	1846	(330/10).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 18:40
S37	2403	(327/172,356).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 18:40
S38	391	(340/825.25).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/13 19:11
S39	305	(327/179).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:41
S40	0	S39 and (((integrated near3 circuit)IC) with ((volume gain) near4 control\$4)) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:42

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S41	1846	(330/10).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:41
S42	0	S41 and (((integrated near3 circuit)IC) with ((volume gain) near4 control\$4)) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:41
S43	2403	(327/172,356).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:41
S44	0	S43 and (((integrated near3 circuit)IC) with ((volume gain) near4 control\$4)) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:42
S45	391	(340/825.25).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:42
S46	0	S45 and (((integrated near3 circuit)IC) with ((volume gain) near4 control\$4)) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 14:54
S47	0	S39 and (((integrated near3 circuit)IC) same ((volume gain) near4 control\$4)) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:42
S48	1	S39 and ((integrated near3 circuit)IC) same (volume gain) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:42
S49	0	S41 and ((integrated near3 circuit)IC) same (volume gain) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:43
S50	3	S43 and ((integrated near3 circuit)IC) same (volume gain) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:43

## EAST Search History

S51	2	S45 and ((integrated near3 circuit)IC) same (volume gain) same (counter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:43
S52	7	((modulat\$3 with count with signal) with (volume gain)) and (audio sound)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 10:48
S53	54	((integrated near3 circuit)IC) same (volume gain) same ((pluse square) near2 wave) same counter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:00
S54	1107	(700/94).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 14:59
S55	0	S54 and ((integrated near3 circuit)IC) same (volume gain) same ((pluse square) near2 wave) same counter	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:00
S56	5	((integrated near3 circuit)IC) same (volume gain) same (timer) same counter same audio	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:02
S57	0	((integrated near3 circuit)IC) same (volume gain) same (timer) same counter same ("AND" near2 gate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:02
S58	15	((integrated near3 circuit)IC) same (volume gain) same counter same ("AND" near2 gate)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:13
S59	0	(timer ((square pulse) near2 wave)) with (audio near2 frequency) with count\$2 with volume	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:14
S60	3	((timer ((square pulse) near2 wave)) with (audio near2 frequency)) same count\$2 same volume	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:16



## EAST Search History

S61	8	((modulat\$3 chang\$3 alter\$3 adjust\$3) near2 count near3 signal) with ((volume gain) near3 signal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:48
S62	5	counter with (volume near2 register) with comparator	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2007/03/14 15:49
S63	8	("5596651").URPN.	USPAT	OR	OFF	2007/03/14 15:53
S64	5	("4731851"   "5189705"   "5303371"   "5394476"   "5596651").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/03/14 15:54